

WCD RÉSUMÉ

William C. Daywitt received his BS degree in engineering physics in 1958 and his MS in applied mathematics in 1959 from the University of Colorado at Boulder, after which he spent a year in the pure math department. He completed the graduate academics for the PhD degree in physics and worked under four thesis advisors without finding a satisfying thesis topic before retiring from the academic life in 1972.

He joined the staff of the National Bureau of Standards (NIST/Boulder) in 1959, where he worked for a third of a century in the areas of microwave attenuation, microwave noise, designing and constructing primary thermal noise standards, performing earth terminal G/T and satellite EIRP measurements, and researching the use of celestial radio sources as standard radio emitters.

He retired from the Bureau of Standards in 1992 and founded **RGS** to upgrade and manufacture millimeter-wave horn/cavity type primary noise standards (*Metrologia*1993-94,**30**,417-428) for the commercial market. He closed down **RGS** in 1997 and again retired.

Since 1983 he has pursued a personal interest in particle physics, cosmology, gravity, and the vacuum state. In 1999 this effort led to what looks like an important model for the modern free-space vacuum and its consequences. He initiated a www website in 2002 to display results from this new vacuum model. Since 2009 he has had over thirty-nine peer-reviewed papers concerning the vacuum state published.